

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An input device, comprising:

a support frame;

a touch panel configured to receive an ~~with which a user performs~~ input operation of information by a pressure exerted on ~~touching~~ the touch panel;

a vibration generation device configured to generate ~~for feeding back, to the user,~~ various forms of vibrations, ~~kinds of sense of touch~~ in accordance with ~~the type of the~~ information, through the touch panel;

a plurality of tapered projections constructed to contact a face of the touch panel closest to the support frame and to contact the vibration generation device;

a touch panel support member constructed to contact the touch panel and the support frame and to extend farther from the touch panel to the support frame than a face of the vibration generation device farthest from the touch panel extends to the support frame; and

a vibration control circuit ~~for allowing~~ configured to control the vibration generation device to generate the various forms of vibrations in accordance with ~~the type of the~~ information, the vibration generation device being a bimorph piezoelectric actuator including a first actuator unit and a second actuator unit stacked on the first actuator unit in which when one of the first actuator unit and the second actuator ~~units unit~~ expands, ~~[[the]]~~ an other of the first actuator unit and the second actuator unit contracts, each of the first actuator unit and the second actuator ~~units unit~~ having a multi-layered piezoelectric element layer.

2. (Currently Amended) The input device according to claim 1, further comprising:

an image display unit ~~that displays~~ configured to display information, wherein,

~~the user can perform~~ the input operation of information is performed by ~~touching~~  
exerting the pressure on a portion on the touch panel corresponding to ~~[[the]]~~ a position at  
which the information of the image display unit is displayed, and  
the vibration generation device is disposed in the image display unit.

3. (Currently Amended) The input device according to claim 2, wherein electrodes are  
disposed on both sides of each ~~of the~~ piezoelectric element included in the first actuator unit  
and the second actuator units unit.

4. (Currently Amended) The input device according to claim 2, wherein, ~~the bimorph~~  
~~piezoelectric actuator includes:~~

a first ~~support portion disposed between~~ of the plurality of tapered projections is  
constructed to contact one end portion of the bimorph piezoelectric actuator and ~~image~~  
~~display unit~~ the touch panel;

a second ~~support portion disposed between the~~ of the plurality of tapered projections  
is constructed to contact an other end portion of the bimorph piezoelectric actuator and ~~image~~  
~~display unit~~ the touch panel; and

a third ~~support portion disposed between the~~ of the plurality of tapered projections is  
constructed to contact a center of the bimorph piezoelectric actuator and ~~touch panel~~ the  
support frame.

5. (Canceled).

6. (Currently Amended) The input device according to claim 5, wherein,  
~~each of the first of the plurality of tapered projections and second support portions~~ has  
a ~~projection and~~ soft adhesive for fixing the first of the plurality of tapered projections  
~~projection~~ to the bimorph piezoelectric actuator and ~~image display unit~~ the touch panel,  
the second of the plurality of tapered projections has a soft adhesive for fixing the  
second of the plurality of tapered projections to the bimorph piezoelectric actuator and the  
touch panel, and  
the third support portion of the plurality of tapered projections has a ~~projection and~~  
soft adhesive for fixing the ~~projection~~ third of the plurality of tapered projections to the  
bimorph piezoelectric actuator and the touch panel support frame.

7-8. (Canceled).

9. (Currently Amended) The input device according to claim 8, wherein a spindle is  
fixed to ~~[[the]]~~ an intermediate portion of the bimorph piezoelectric actuator.

10. (Currently Amended) The input device according to claim 2, wherein the image  
display unit ~~is constituted by~~ includes a liquid crystal display unit and has a dust seal ~~that~~  
~~prevents~~ constructed to prevent dust from entering between the touch panel and the liquid  
crystal display unit.

11. (Currently Amended) The input device according to claim 2, wherein,  
the vibration control circuit ~~stores~~ is configured to store a plurality of vibration  
control waveform patterns for the bimorph piezoelectric actuator, and

the plurality of vibration control waveform patterns ~~corresponds~~ correspond to the information ~~[[items]]~~ displayed on the image display unit.

12. (Currently Amended) The input device according to claim 11, wherein one of the plurality of vibration control waveform ~~pattern~~ patterns stored in the vibration control circuit can be rewritten.

13. (Currently Amended) The input device according to claim 11, wherein the vibration generation device includes an electromotive force detection device ~~that detects an~~ configured to detect an electromotive force which is generated depending on ~~[[the]]~~ a pressing force ~~of the user and~~ applied to the bimorph piezoelectric actuator.

14. (Currently Amended) An electronic apparatus having an input device for inputting information, the input device comprising:

a support frame;

a touch panel configured to receive an ~~with which a user performs~~ input operation of information by a pressure exerted on ~~touching~~ the touch panel;

a vibration generation device configured to generate ~~for feeding back, to the user,~~ various forms of vibrations, ~~kinds of sense of touch~~ in accordance with ~~the type of~~ the information, through the touch panel;

a plurality of tapered projections constructed to contact a face of the touch panel closest to the support frame and to contact the vibration generation device;

a touch panel support member constructed to contact the touch panel and the support frame and to extend farther from the touch panel to the support frame than a face of the vibration generation device farthest from the touch panel extends to the support frame; and

a vibration control circuit configured to control ~~for allowing~~ the vibration generation device to generate the various forms of vibrations in accordance with ~~the type of~~ the information, the vibration generation device being a bimorph piezoelectric actuator including a first actuator unit and a second actuator unit stacked on the first actuator unit in which when one of the first actuator unit and the second actuator ~~units~~ unit expands, ~~[[the]]~~ an other of the first actuator unit and the second actuator unit contracts, each of the first actuator unit and the second actuator ~~units~~ unit having a multi-layered piezoelectric element layer.

15. (Currently Amended) The electronic apparatus according to claim 14, further comprising: wherein the input device further comprises  
an image display unit ~~that displays~~ configured to display information, wherein  
~~the user can perform~~ the input operation of information is performed by ~~touching~~  
exerting the pressure on a portion on the touch panel corresponding to ~~[[the]]~~ a position at  
which the information of the image display unit is displayed, and  
the vibration generation device is disposed in the image display unit.

16. (Currently Amended) The electronic apparatus according to claim 15, wherein electrodes are disposed on both sides of each ~~of the~~ piezoelectric element included in the first actuator unit and the second actuator ~~units~~ unit.

17. (Original) The electronic apparatus according to claim 14, wherein the electronic apparatus is a portable electronic apparatus.